DECON
ENVIRONMENTAL
SERVICES, INC.

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Jason Gulbransen
Project Manager

January 26, 2005

Mr. Todd Miller
Malcolm Pirnie, Inc.
2000 Powell Street, Suite 1180
Emeryville, CA 94608

RE: System Operation Status Report
4th Quarter October, November, December 2004
Jefferson Car Wash Site
Groundwater Extraction and Treatment System
3080 Jefferson Street, Napa, California

Dear Mr. Miller;

DECON Environmental Services, Inc. (DECON) has prepared this Status Report to document the quarterly activities at the above referenced site. The Jefferson Car Wash groundwater extraction and treatment system operates by pumping groundwater from two-extraction wells (EW-2, EW-3). The water is conveyed to the treatment compound where the water extracted from each well combines into one pipe and flows through a 10 micron bag filter. The raw water then flows through two granular activated carbon (GAC) units. The treated water then proceeds through a flow totalizer/meter and is discharged into the Napa Sanitary sewer system. The treatment system contains a piping manifold that allows the three carbon units to be utilized in any lead-lag configuration. Currently GAC vessel #1 is the lead and GAC vessel #2 is the lag. No change to the configuration occurred this quarter.

The purpose of this treatment system is to remove TPH-gasoline and MTBE contaminants from the groundwater. Monthly groundwater sample analyses indicate the system is meeting its intended purpose. The monthly sample analysis indicates the presence of TPH-gasoline and MTBE in the raw water from each extraction well. Analytical results from the treated effluent are consistently non-detect for these compounds.

The attached table summarizes the analytical results for each month at each sample location. There are five sample locations: (1) EW-2, (2) EW-3, (3) Combined Influent, (4) Lag GAC Vessel Inlet, (5) Effluent/Discharge point.

October 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. When the sump pump would turn on, the pressure gauge before the bag filter indicated a pumping pressure above 25 psi, indicating some backpressure on the piping. The filter bag was changed and the pressure gauges before and after the bag filter returned to normal. Once the bag was changed and the sump pump turned on, the pressure before the filter bag was below 10 psi. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm.

The approximate contaminant mass removed is as follows:
24.86 grams of TPH-gasoline was removed from 162,700 gallons of treated water.
12.66 grams of MTBE was removed from 162,700 gallons of treated water.

November 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm.

Two system modifications occurred on this 12-02-04 site visit: 1) Installation of a shade structure over the LCP, and 2) installation of an up-hill loop in the discharge piping after the flow meter.

The approximate contaminant mass removed is as follows:
23.12 grams of TPH-gasoline was removed from 188,550 gallons of treated water.
10.36 grams of MTBE was removed from 188,550 gallons of treated water.

December 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. This month, sampling event followed a period of very heavy rains. During the two days prior to this site visit, The Treatment System auto-dialer notified me of high-pressure readings at the bag filter. The filter bag was changed, and with only flow from the two wells the pressure gauges before and after the bag filter were the same (<1 psi). With the sump pump turned on the pressure gauge before the filter bag was normal, < 10 psi. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm.

December Site Visit Cont.

The approximate contaminant mass removed is as follows:
67.94 grams of TPH-gasoline was removed from 304,000 gallons of treated water.
10.57 grams of MTBE was removed from 304,000 gallons of treated water.

System Observations/Recommendations

The analytical results have indicated MTBE break-thru on the lead vessel (GAC-1). The November results show 1.1 ug/L, and the December results show 1.9 ug/L of MTBE at the inlet to the lag vessel (GAC-2). Once the aggregate amount of TPH-g and MTBE is above 5 ug/L the GAC vessel configuration will be changed.

The roto-meters in each well vault are clouded with algae or organic matter. DECON plans to clean both during the January 2005 site visit.

A total of 655,250 gallons of groundwater were treated during the 4th quarter of 2004. A total of 67.94 grams of TPH-gas was removed, and a total of 10.57 grams of MTBE was removed for this quarter.

Please feel free to contact me with any questions regarding this project.

Sincerely,
DECON Environmental Services, Inc.

Jason Gulbransen

Jason Gulbransen
Project Manager

Fourth Quarter October, November, December 2004
Summary of Analytical Results
Jefferson Car Wash
Groundwater Treatment System

Oct-04 Sample Date 11-10-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	47	39	33	<25	<25
BTEX	ug/l	<1	<1	<1	<1	<1
MTBE	ug/l	67	11	29	BDL	BDL
TPH-d	ug/l	N/A	<50	N/A	N/A	<50
Total Lead	mg/l	N/A	<0.015	N/A	N/A	<0.015
Total Flow	gallons	230,720	1,281,780	N/A	N/A	1398800*

BDL: Below Detection Limits **N/A: Not Analyzed or Not Applicable**

Nov-04 Sample Date 12-02-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	49	29	29	<25	<25
BTEX	ug/l	BDL	BDL	BDL	BDL	<1
MTBE	ug/l	43	8.7	30	1.1	<1
TPH-d	ug/l	N/A	N/A	N/A	N/A	<50
Total Lead	mg/l	N/A	N/A	N/A	N/A	<0.015
Total Flow	gallons	262,690	1,438,360	N/A	N/A	1569600*

BDL: Below Detection Limits **N/A: Not Analyzed or Not Applicable**

Dec-04 Sample Date 01-03-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	38	64	48	<25	<25
BTEX	ug/l	BDL	BDL	BDL	<1	<1
MTBE	ug/l	5.8	10	9.4	1.9	<1
TPH-d	ug/l	NR	NR	NR	NR	<50
Total Lead	mg/l	NR	NR	NR	NR	<0.015
Total Flow	gallons	334,250	1,670,360	N/A	N/A	1850700*

BDL: Below Detection Limits **NR: Not Required**

*** These Flow Totals Are From The Discharge Flow Totlaizer**

Jefferson Carwash Mass Contaminant Removal Spreadsheet

Oct-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	47	39	33	<25	<25	
MTBE	ug/l	67	11	29	BDL	BDL	
Total Flow	gallons	27,770	134,930	N/A	N/A	162700*	
	liters (3.78533)	105,119	510,755			#VALUE!	
Mass							
TPH-g	grams	4.94	19.92				**24.86**
MTBE	grams	7.04	5.62				**12.66**

Nov-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	49	29	29	<25	<25	
MTBE	ug/l	43	8.7	30	1.1	BDL	
Total Flow	gallons	31,970	156,580	N/A	N/A	188550*	
	liters (3.78533)	121,017	592,707			#VALUE!	
Mass							
TPH-g	grams	5.93	17.19				**23.12**
MTBE	grams	5.20	5.16				**10.36**

Dec-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	38	64	48	<25	<25	
MTBE	ug/l	5.8	10	9.4	1.9	BDL	
Total Flow	gallons	81,560	232,000	N/A	N/A	304000*	
	liters (3.78533)	308,732	878,197			#VALUE!	
Mass							
TPH-g	grams	11.73	56.20				**67.94**
MTBE	grams	1.79	8.78				**10.57**

Total TPH-g Mass Removed for 4th Quarter **115.92 g**
Total MTBE Mass Removed for 4th Quarter **33.59 g**

*** Discharge Flow Total From EW-2 & EW-3 Readings**